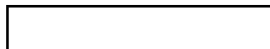


**BASIC IMAGERY  
INTERPRETATION  
REPORT**

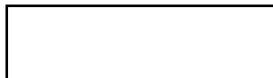
**NATIONAL PHOTOGRAPHIC  
INTERPRETATION CENTER**

**TAI-YUAN EXPLOSIVES AND SOLID MOTOR  
PRODUCTION PLANT 245**



**STRATEGIC WEAPONS INDUSTRIAL FACILITIES**

**CHINA**

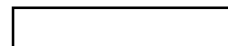


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INSTALLATION OR ACTIVITY NAME			COUNTRY
Tai-yuan Explosives and Solid Motor Production Plant 245			CH
UTM COORDINATES	GEOGRAPHIC COORDINATES	CATEGORY	
NA	37-59-06N 112-31-52E	See below	
MAP REFERENCE			
SAC. USATC, Series 200, Sheet M0382-13HL, Jun 67, scale 1:200,000 (SECRET/ )			
LATEST IMAGERY USED		NEGATION DATE (if required)	
NA			

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## ABSTRACT

1. Tai-yuan Explosives and Solid Motor Production Plant 245 is a Soviet-designed plant which is probably engaged in the limited production of a double-base propellant for use in conventional munitions as well as rocket motors.

2. Photographic evidence obtained in 1970 suggests that the capability of the plant to produce cast double-base rocket motors is being significantly expanded.

3. An incident at the plant, involving the destruction of a rest home in the number one nitroglycerine line, has probably reduced the double-base propellant production capability of China's only known double base propellant plant.

4. This report, based on photography from [ ] contains a location map, three photographs, and tabular material containing dimensional and chronological data.

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## INTRODUCTION

5. Tai-yuan Explosives and Solid Motor Production Plant 245 is on the northern edge of the city of Tai-yuan, China (Figure 1). This propellant and rocket motor manufacturing plant is the southernmost component of an explosives and ammunition loading complex. A rocket motor test facility is adjacent to the northern corner of the plant. This report updates a previous NPIC publication on the facility.

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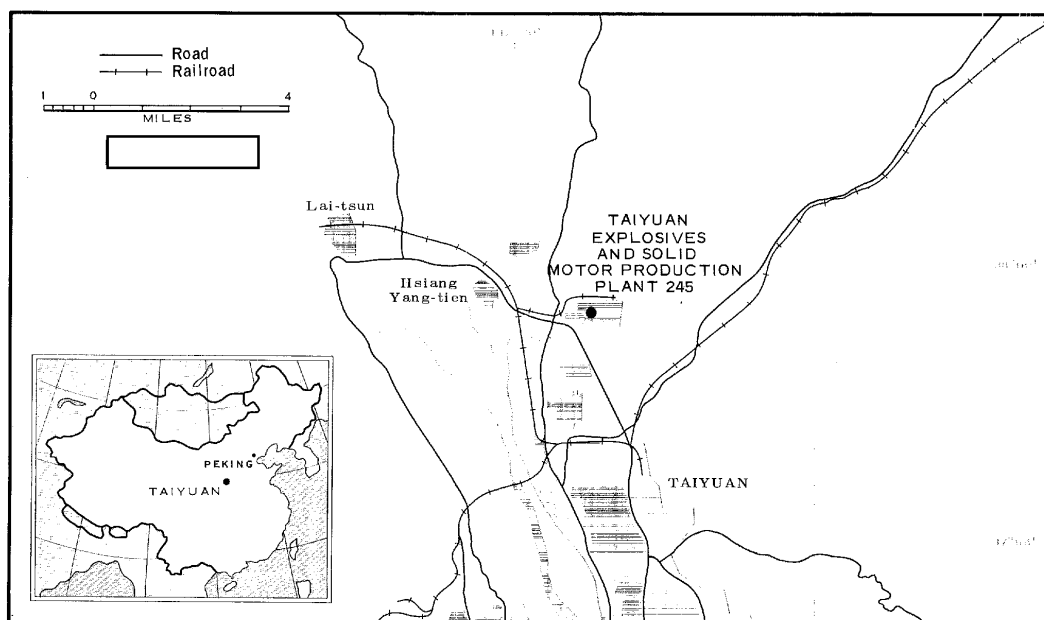


FIGURE 1. TAI-YUAN EXPLOSIVES AND SOLID MOTOR PRODUCTION PLANT 245, CHINA

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## BASIC DESCRIPTION

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6. Photographic evidence obtained during the reporting period, [ ] through the most recent coverage obtained in [ ] revealed several significant changes in the plant and test area. The three areas where significant changes have taken place are shown in Figure 2.

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7. A new probable horizontal test area had been built in the test facility (area A, Figures 2 and 3) since [ ]. The test cell is situated due east of the existing horizontal test cell. It consists of a rectangular structure at the southern end of an unsurfaced rectangular trench. The test cell is somewhat analogous to the firing bay portion of test cell 1.

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8. Significant construction activity has also taken place at the eastern end of the double base propellant plant (area B, Figure 2). Several structures

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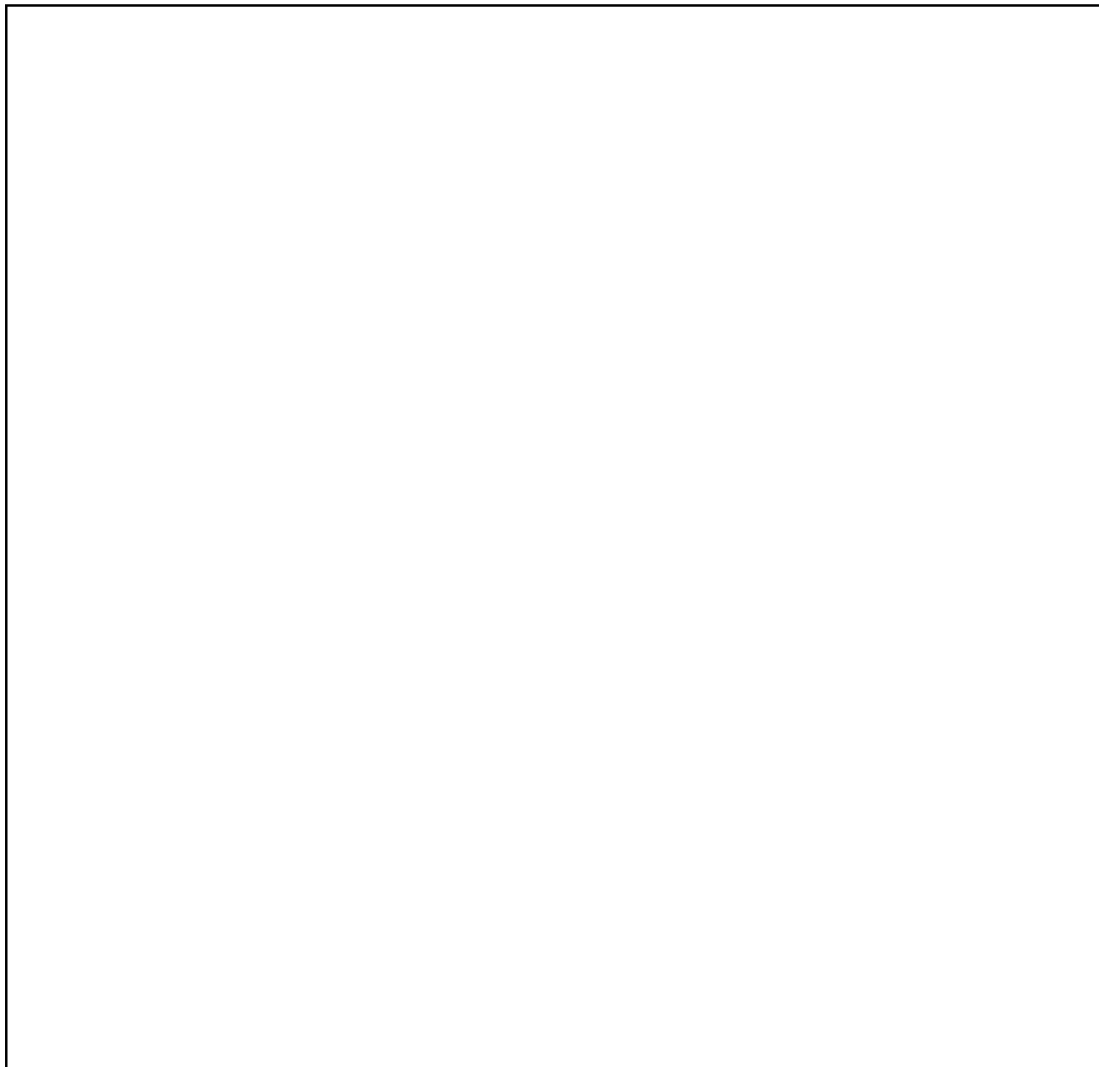
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are externally complete and can now be tentatively identified. Cast double base rocket motors can be produced in these new modified structures. Functional, mensural, and chronological data for these buildings are provided in Figure 4. A review of photographic coverage obtained during 1959 indicates that the Chinese might have intended to complete this area at an earlier date. It is possible that due to the withdrawal of Soviet aid in 1960 the completion of this area was delayed. It should be noted, however, that there is no direct physical analogy between this new area at Tai-yuan and casting facilities in the Soviet Union.

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9. Between [ ] the rest house in the first nitroglycerin line was destroyed by either an explosion or fire (area C, Figure 2). A temporary connection has been built from the still present nitrator-separator building in the first line to the gutter connecting the nitrator/separator and rest house in the second line. This incident has probably had a serious effect on the production capacity of plant 245, the only known producer of double base propellant in China.

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## REFERENCES

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## MAPS OR CHARTS

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SAC. US Air Target Chart, Series 200, Sheet M0382-13HL, Jun 67, scale  
1:200,000 (SECRET/ [REDACTED])

## DOCUMENT

1. NPIC. [REDACTED] RCA-09/0001/70, Tai-Yuan Explosives and Solid Motor  
Production Plant 245, May 70 (TOP SECRET [REDACTED])

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## REQUIREMENT

COMIREX J02  
NPIC/IEG/MSD/DMB Project 221373

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